

Claims

1. A nebulising dispenser head (1; 100) for a bottle that is elastically deformable by squeezing, comprising a channel for the liquid (4), connected at one of its ends to a suction tube (6) which draws a liquid contained within a bottle (2) under a volume of air and terminating, at its other end, with a nozzle of the liquid (7) in a mixing chamber (70), and a channel for air (5) communicating with said volume of air of the bottle (2), surrounding the channel for the liquid (4) and merging into said mixing chamber (70) formed by coupling with a terminal element which is applied facing said nozzle for the liquid (7) and is provided with an orifice (31) for discharging outwards, characterised in that:

10 - said channel for the liquid (4) and said channel for air (5) are formed in a machined block (10) of said dispenser head (1; 100) in the form of a tubular segment (40) externally ribbed with ribs (42) and, respectively, of a wall (50) surrounding said channel of the liquid (4) with the formation of a tubular compartment (51) substantially coaxial to said ribbed tubular segment (40), said wall (50) having an opening (52) for communication with said inner volume of air of the bottle (2);

- said terminal element includes an ejection tip (3) with tubular element (30) having a cavity so shaped as to axially narrow outwards in said discharge orifice (31) and terminate with a diverging segment (32), said ejection tip (3) being inserted with a proximal portion thereof into said ribbed tubular compartment (51) to form said mixing chamber (70);

20 - externally coaxial to said tubular element (30) being integrally formed a sleeve (33) provided with an abutment (34) able to define a depth of insertion of the ejection tip into said tubular compartment (51) of the machined block (10);

- a sealing door (8) being integrally hinged in a distal part (35) of said sleeve (33), the sealing door (8) being able to rotate by 180° from an open position to a closed position of said discharge orifice (31).

2. A dispenser head (1; 100) as claimed in claim 1, characterised in that the ejection tip (3) has a centring element, in the form of a plate (36) projecting from said sleeve (33) and able to be inserted into said machined block (10) of dispenser head (1; 100) in a slit (11) obtained therein externally to said tubular compartment (51).

3. A dispenser head (1; 100) as claimed in claim 1, characterised in that said ejection tip (3) has a cylindrical distal end (37) in correspondence with the diverging segment (32) of the discharge orifice (31) forming an abutment step (38), and said sealing door (8) has, in its face (80) destined to engage the ejection tip (3), a sealing ring (81) and, coaxially  
5 internal thereto, a projecting pivot (82), the sealing ring (81) being secured on the ejection tip (3) for the seal, the projecting pivot (82) being able to enter said final diverging segment (32) of the discharge orifice (31), locking the sealing door (8) in the closed position.

4. A dispenser head (1; 100) as claimed in claim 1, characterised in that said wall (50) surrounding the channel for the liquid (5) has on the surface oriented towards the tubular  
10 segment (40) of the channel for the liquid (4) undercut portions (53) and said tubular element (30) of the ejection tip (3) has on its outer surface corresponding projections (39) destined to engage said undercut portions (53).

5. A dispenser head (1) as claimed in claim 1, characterised in that it has a tubular portion for snap-on connection (12), internally shaped with circumferentially equidistant  
15 protrusions (13) able to engage a peripheral projection (20) of the neck of the bottle (2).

6. A dispenser head (100) as claimed in claim 1, characterised in that it includes a separate collar (120) internally threaded to be screwed, with the interposition of a gasket (130), onto a bottle neck with matching thread.